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# NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/24/2004

McDermott, Will & Emery 600 13th Street, N.W. Washington, DC 20005-3096

EXAMINER TRAN, ANDREW Q		

DATE MAILED: 02/24/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,599	07/23/2003	Tomoshi Futatsuya	67161-075	7626

TITLE OF INVENTION: NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE THAT CAN BE FABRICATED WITH ERASURE UNIT MODIFIED

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	05/24/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the feè(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450

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INSTRUCTIONS: This fo appropriate. All further coindicated unless corrected maintenance fee notification	rm should be used for tran rrespondence including the below or directed otherwise ns.	smitting the ISSU Patent, advance or in Block 1, by (a)		PUBLICATION FEE (if requirements of maintenance fees a new correspondence address	uired). Blocks 1 through 4 swill be mailed to the current; and/or (b) indicating a sep	should be completed where t correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)  7590 02/24/2004			Note: A certificate of Fee(s) Transmittal. The papers. Each addition have its own certification.	Note: A certificate of mailing can only be used for domestic mailings of th Fee(s) Transmittal. This certificate cannot be used for any other accompanyin papers. Each additional paper, such as an assignment or formal drawing, mushave its own certificate of mailing or transmission.		
McDermott, Will & Emery 600 13th Street, N.W. Washington, DC 20005-3096			I hereby certify that t States Postal Service addressed to the Ma	rtificate of Mailing or Tran his Fee(s) Transmittal is bein with sufficient postage for fi il Stop ISSUE FEE address PTO, on the date indicated be	ng deposited with the United rst class mail in an envelope a above, or being facsimile	
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	<u> </u>	FIRST NAMED	DINVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	NO	\$1330	)	\$300	\$1630	05/24/2004
EXAM	1INER	ART UN	IT	CLASS-SUBCLASS	]	
TRAN, Al	NDREW Q	2824		365-230030		
CFR 1.363).  Change of correspond. Address form PTO/SB/1  "Fee Address" indicati	e address or indication of "F ence address (or Change of 0 22) attached. ion (or "Fee Address" Indica or more recent) attached. Us	Correspondence	names of agents OR firm (havin agent) and	nting on the patent front page up to 3 registered patent at, alternatively, (2) the name ng as a member a registered if the names of up to 2 registered or agents. If no name is listented.	attorneys or I of a single attorney or 2 tered patent	
3 ASSIGNEE NAME AND	RESIDENCE DATA TO E	E PRINTED ON T	HE PATENT	(print or type)		
PLEASE NOTE: Unless	an assignee is identified be ed to the USPTO or is being	low, no assignee da submitted under sep	ata will appea parate cover. (	ron the patent. Inclusion of a Completion of this form is NO E: (CITY and STATE OR CC	T a substitute for filing an ass	ate when an assignment ha
Please check the appropriate	e assignee category or catego	ries (will not be pri	inted on the pa	atent); 🚨 individual 🚨	corporation or other private g	roup entity 🚨 governmen
4a. The following fee(s) are	enclosed:	4b	. Payment of	Fee(s):		
☐ Issue Fee			A check in	n the amount of the fee(s) is en	closed.	
Publication Fee			•	by credit card. Form PTO-2038		
☐ Advance Order - # of	Copies			ctor is hereby authorized by count Number		
Director for Patents is reque	sted to apply the Issue Fee a	nd Publication Fee	(if any) or to	re-apply any previously paid	issue fee to the application id	entified above.
(Authorized Signature)		(Date)				
NOTE; The Issue Fee another than the applicant; interest as shown by the re	d Publication Fee (if requir a registered attorney or ag cords of the United States Pa	ed) will not be accept; or the assigned	cepted from a ee or other pa k Office.	anyone arty in		
	ation is required by 37 CFR					

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



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APPLICATION NO.	FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,599	07/23/2003	Tomoshi Futatsuya	67161-075	7626
7:	590 02/24/2004		EXAM	INER
McDermott, Will			TRAN, AN	NDREW Q
600 13th Street, N. Washington, DC 20			ART UNIT	PAPER NUMBER
v, usmington, 202			2824	

DATE MAILED: 02/24/2004

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	pplicant(s)		
	10/624,599	FUTATSUYA ET AL			
Notice of Allowability	Examiner	Art Unit			
	Andrew Q. Tran	2824			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.					
1. This communication is responsive to					
2. The allowed claim(s) is/are <u>1-20</u> .					
3. $\boxtimes$ The drawings filed on <u>23 July 2003</u> are accepted by the Ex	aminer.				
<ul> <li>4.</li></ul>	been received.  been received in Application cuments have been received of this communication to file IENT of this application.  itted. Note the attached EXA es reason(s) why the oath or of the submitted. on's Patent Drawing Review as Amendment / Comment or as Amendment / Comment or as Age of BIOLOGICAL MATE	n No  d in this national stage applicated in this national stage applicated a reply complying with the requirement of the claration is deficient.  ( PTO-948) attached in the Office action of the drawings in the front (not the R 1.121(d).	juirements OTICE OF		
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 07/23/03	6.	formal Patent Application (PTC ummary (PTO-413), Mail Date Amendment/Comment	)-152)		
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	8. ⊠ Examiner's : 9. ⊠ Other <u>: Sear</u>	Statement of Reasons for Allow	wance		
. Diological Material	7. <u>23</u> Outer <u>. Sear</u>	Andrew Q. Tran Primary Examiner			
		Art Unit: 2824			

### **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance: Independent apparatus claims 1 and 13 respectively claim a nonvolatile semiconductor memory comprising an erasure control circuit switching between a first and second erasing operation, based on an erasure command, for erasing first and second memory blocks, as respectively recited in claims 1 and 13. This is not taught in the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Q. Tran whose telephone number is (571) 272-1885. The examiner can normally be reached on Mon - Fri 8:30 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard T. Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 2824

Primary Examiner Art Unit 2824

at

February 23, 2004

ANDREW Q.TRAN PRIMARY EXAMINER